

A-04005 FIGS. 1-9

FIG. 1

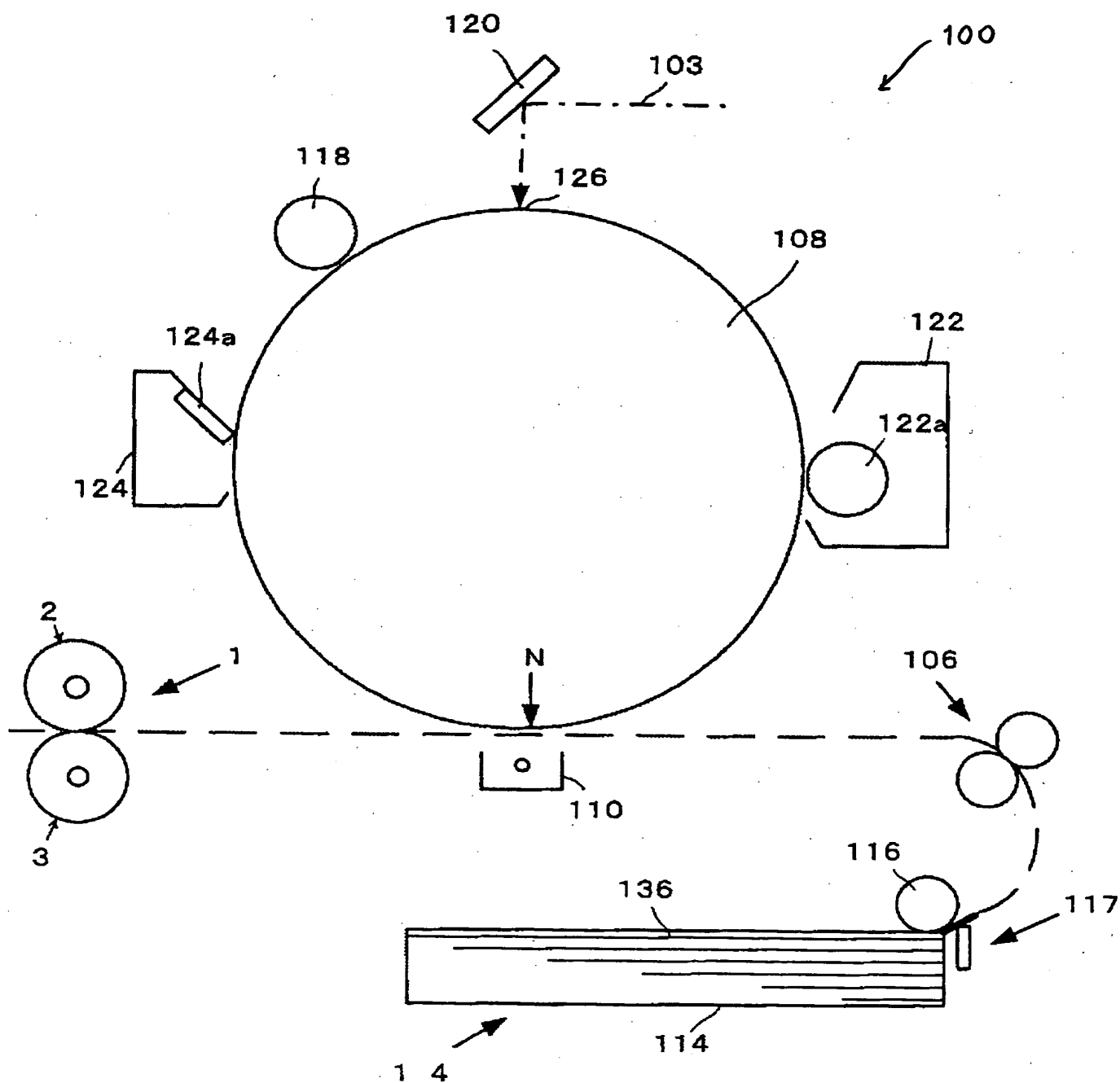


FIG. 2

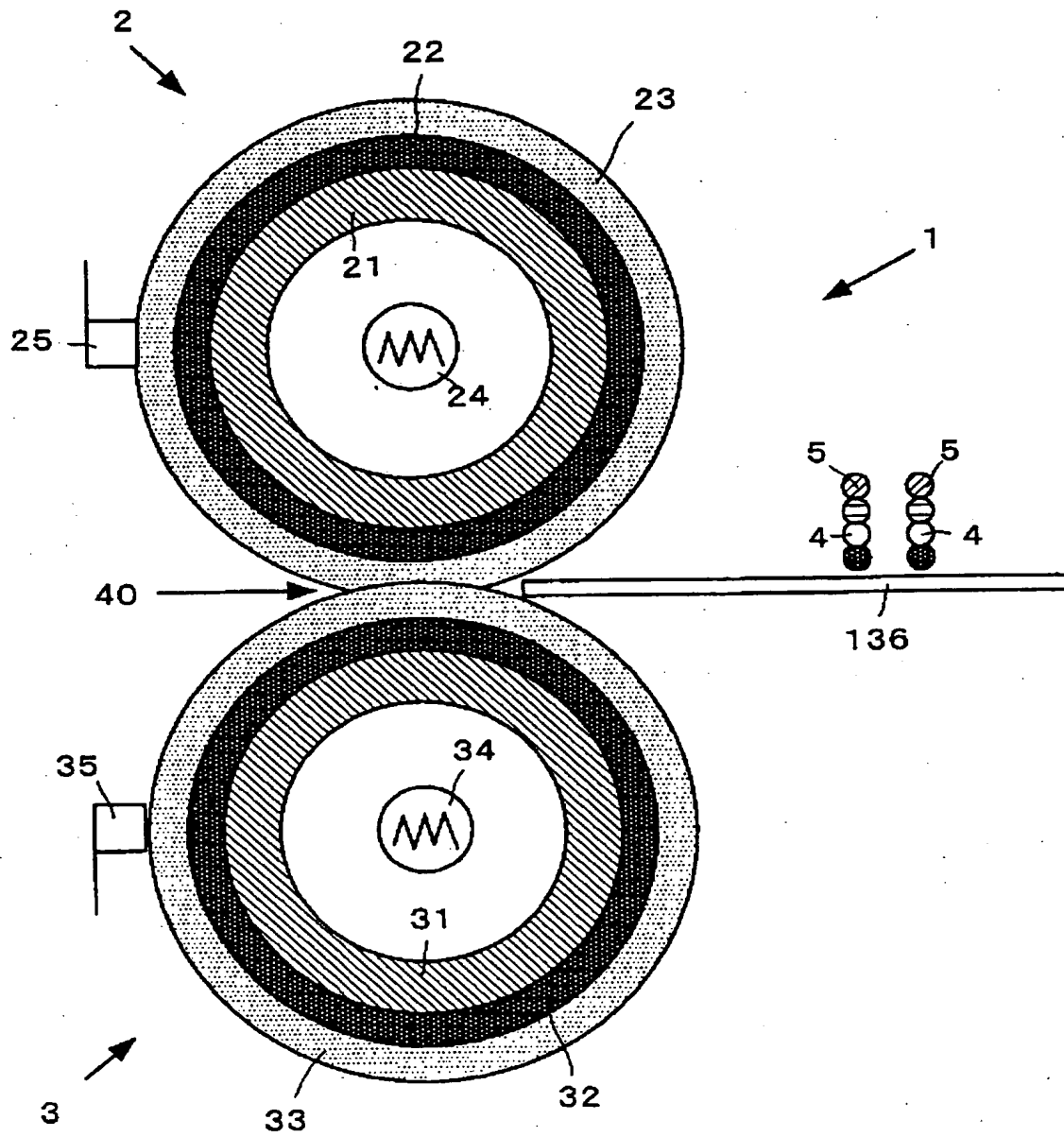


FIG. 3

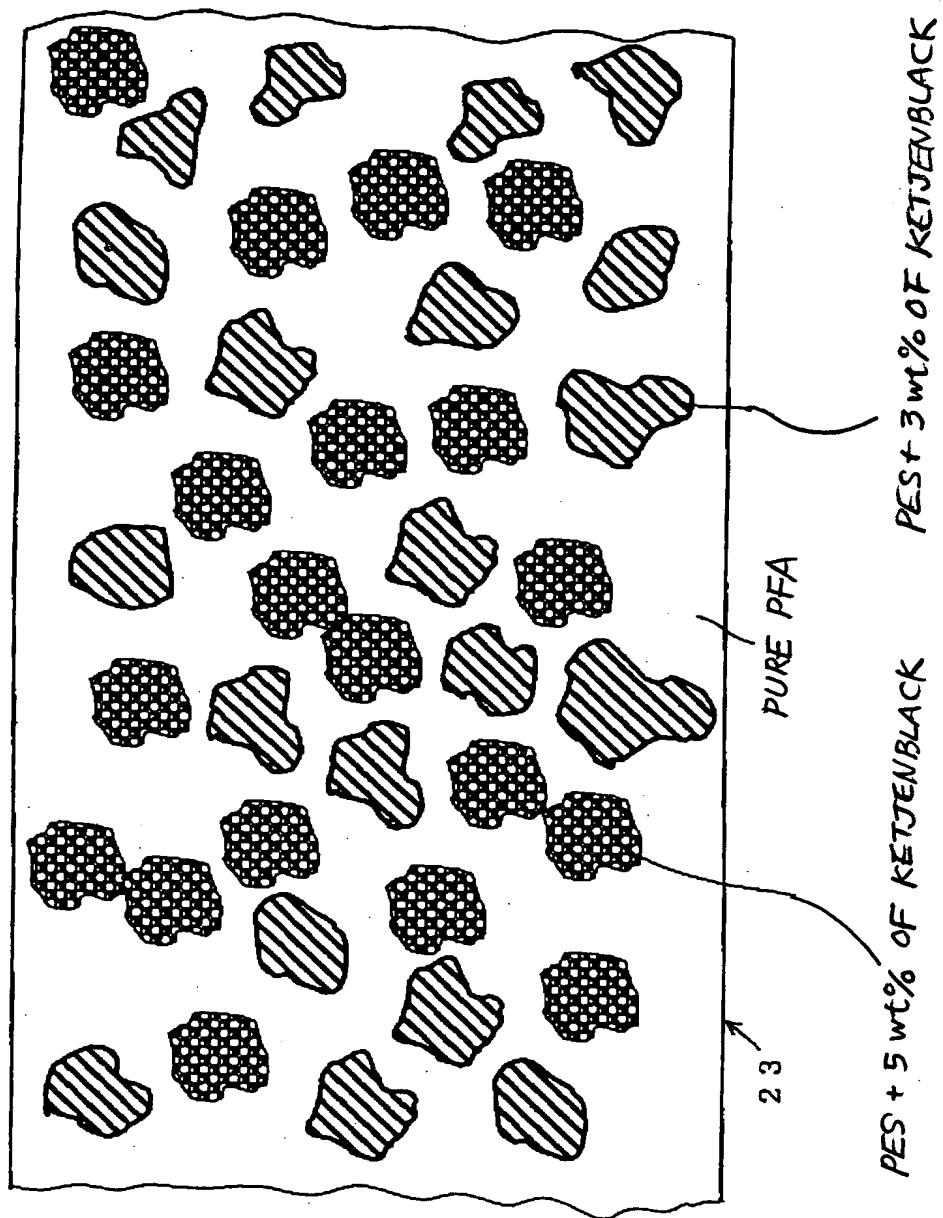


FIG. 4

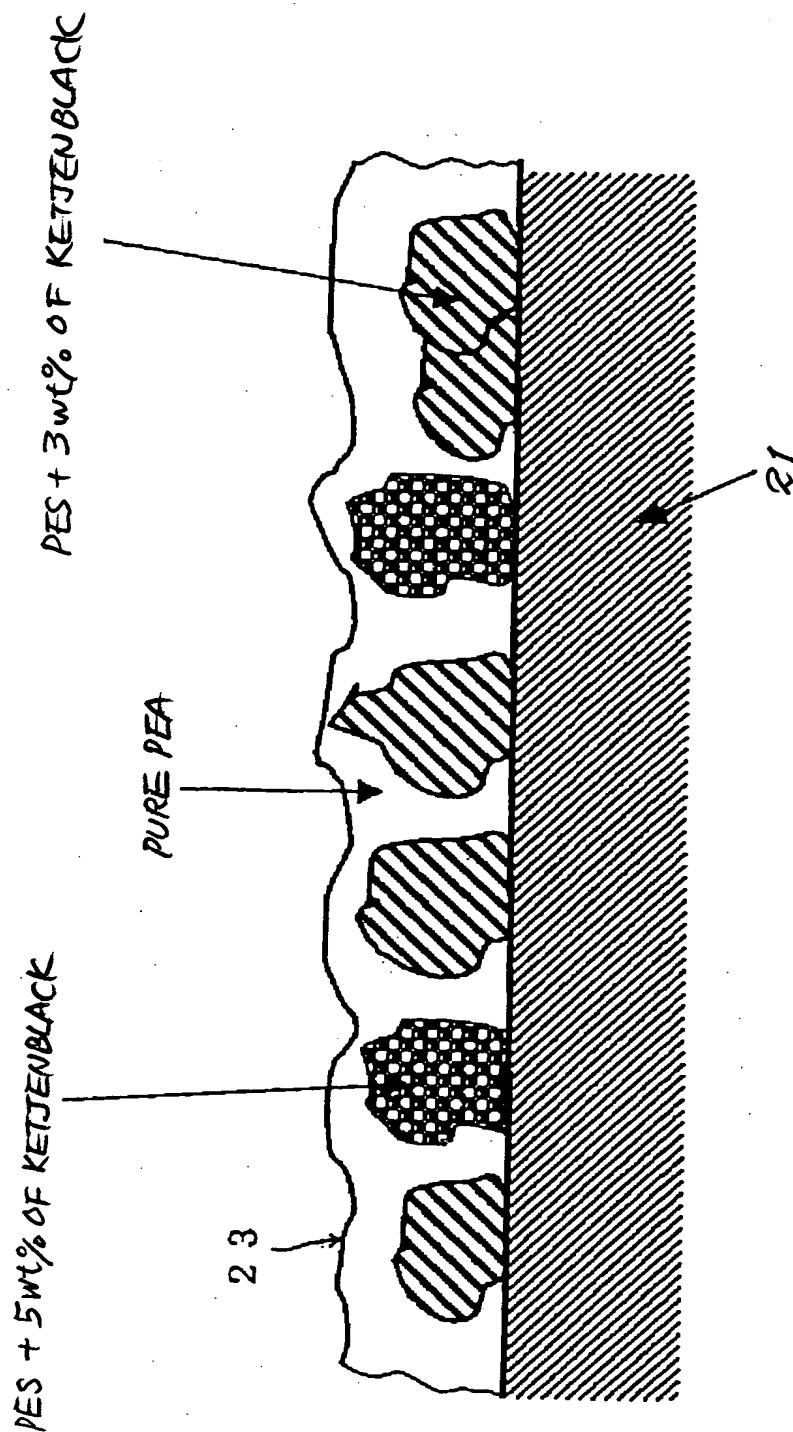
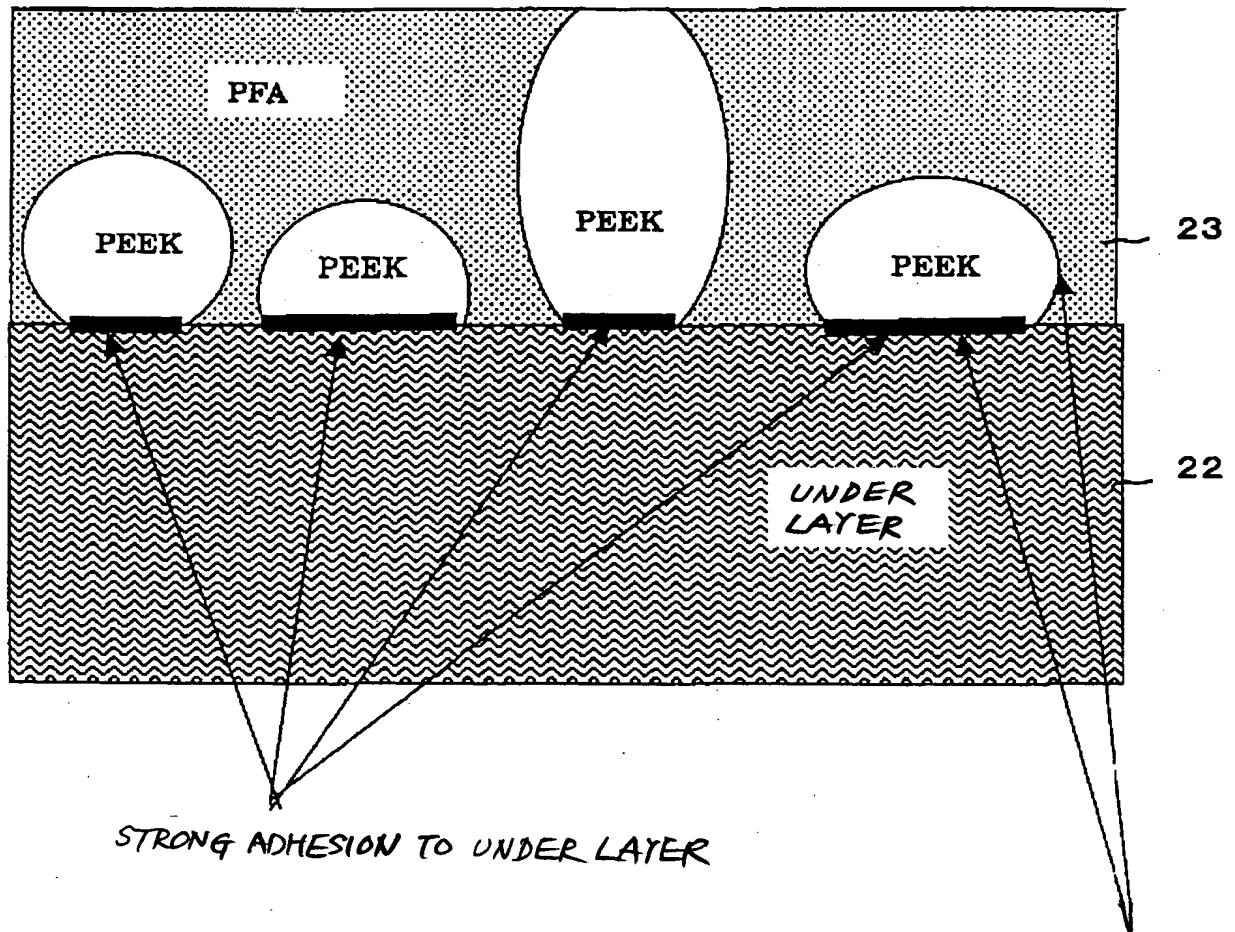


FIG. 5



A DIFFERENCE IN CROSS-SECTIONAL AREA
IN THIS PORTION PROVIDES THE ENTIRE
LAYER WITH STRONG ADHESION ALTHOUGH
ADHESION TO THE UNDER LAYER IS WEAK.

FIG. 6

PFA : PEEK (WEIGHT RATIO)	PEEL STRENGTH (STANDARDIZED FOR 100% PFA = 1)	TONER PEEL STRENGTH (STANDARDIZED FOR 100% PFA = 1)
100 : 0	1.0	1.0
95 : 5	1.2	0.62
90 : 10	4.3	0.52
85 : 15	5.1	0.53
80 : 20	5.2	0.55
75 : 25	5.5	0.7
70 : 30	6.0	0.8
0 : 100	6.2	TONER DEPOSITED ON ROLLER SURFACE

FIG. 7

PFA : PES (VOLUME RATIO)	TOYER DEPOSITION	SURFACE ROUGHNESS R _Z (μm)
30 : 70	SOME	5.3
40 : 60	SOME	4.5
50 : 50	NONE	2.2
60 : 40	NONE	1.8
70 : 30	NONE	2.1

FIG. 8

PRESSURE (kgf/ cm ²)	TONER DEPOSITION	SHEET WRAPPING
0.3 (kgf/ cm ²)	NONE	NONE
0.5 (kgf/ cm ²)	NONE	NONE
1.0 (kgf/ cm ²)	NONE	NONE
2.0 (kgf/ cm ²)	SOME	NONE
4.0 (kgf/ cm ²)	MUCH	FREQUENT JAM

FIG. 9

PFA : PES (VOLUME RATIO)	COLD OFFSET TEMPERATURE	HOT OFFSET TEMPERATURE
30 : 70	105°C	190°C
40 : 60	105°C	190°C
50 : 50	105°C	190°C
60 : 40	105°C	190°C
70 : 30	110°C	190°C
PFA WITH 3% OF CARBON (COMPARISON)	130°C	200°C